

Georgia Future Problem Solving Program 2021-2022



Teaching HOW to think, not WHAT to think

FPS supports development of 21st Century Skills: The 4 C's

“Opening Doors to the Future”

Creativity and Innovation - Problem solving situations are set in the future to encourage inventive thinking. Students learn to look at situations from a variety of perspectives. They must use creativity to generate challenges and develop multiple ideas for solutions to pressing problems.

Critical Thinking and Problem Solving - Students use analysis to gain an understanding of issues in today's world, and to understand the significant aspects of complex situations set in the future. They apply problem solving skills to work through to solutions and action plans for those situations. True Problem-based Learning.

Communication and **C**ollaboration - Students collaborate in teams while learning about the issues and while applying their problem solving skills. They must produce clear and articulate communication, oral or written, while working with a team.

Future Problem Solving is an academic competition for students in grades 4 through 12 with three grade level divisions (4-6, 7-9, and 10-12) using a **six-step creative problem solving process to prepare for the future:**

1. Identify challenges
2. Determine an underlying problem
3. Produce solution ideas
4. Develop criteria
5. Apply criteria to determine the best solution
6. Develop an action plan

Diverse Components address the need for problem solving within the curriculum – can be integrated into all curriculum areas, especially language arts, science, and social studies.

- **Global Issues Problem Solving – (GIPS)** Teams of up to 4 students, or individuals, produce a written booklet in response to a short scenario based on a given topic set in the future using the 6-step process.

- **Scenario options** with a problem solving focus based on one of the topics.

Writing – Individual student writes a future scenario of up to 1,500 words

Performance- tell a 4 – 5-minute future story

- **Community Problem Solving – (CmPS)**

Teams of any size, or individuals, attack a local, national, or world problem of their own choosing, produce a proposal, a report, and supporting materials tracking progress, accomplishments, and obstacles.

- **Action-based Problem Solving/Novice** – Introduces CPS skills to students in grades K - 9. Non-competitive, curricular group work.



Coach training in any component available virtually. For information/questions:

GA FPSP Affiliate Director
argenhicks@gmail.com

GA website: www.georgiafpssp.org
International website – www.fpspi.org

Delivery options: integration into school content areas or gifted resource class, extracurricular competition, class enrichment activity - very flexible!

- Topics** for this year (in order from GIPS practice problems to the state bowl) are: Water Supply (PP1), Building Green (PP2), Insects (QP), Mining (state bowl). Scenario writers may also use the 2021 International Conference topic, Neurotechnology.

Promote teamwork, analytical and creative thinking, and communication skills

Georgia Future Problem Solving Program



Online at: www.georgiafpp.org.

-- By August you can find registration forms for all components, as well as deadlines, topics, and costs. Learn about materials and tips for coaching.

-- Browse the online catalog for materials to help train your students. [http://www.fppimart.org/](http://www.fppimart.org) Recommended: 2021-22 Readings, Research & Resources- topic article summaries; 2021-22 Topic Activity Units to teach FPS steps using topic-specific activities; and The Coach's Handbook.

-- Ask questions and get answers from experienced coaches. GA FPSP gives guidance to you, the facilitator. Feedback from evaluators helps students become better problem solvers. Contact Georgia Affiliate Director: argenhicks@gmail.com

FPSP Inspires and Prepares for the future

FPSP Global Issues Problem Solving Competitions: timeline & costs				
October 5, 2021	December 7, 2021	February 2, 2022	March 26, 2022	June 8-12, 2022
Practice Problem 1 Topic: Water Supply	Practice Problem 2 Topic: Building Green	Qualifying Problem Topic: Insects	State Bowl Topic: Mining	Int'l Conference Topic: To be announced in March
(optional) DUE -Oct date above in order to receive GAFPSP feedback. NOT timed. Complete at own team's pace as you learn and apply instruction. Can be whole class or # teams registered.	(optional) DUE - Dec. date above in order to receive GAFPSP feedback. NOT timed. Complete at own team's pace as you learn and apply instruction. Can be whole class or # teams registered.	(required) DUE - Feb date above in order to be eligible for invitation to State Bowl. Time limit of 3 hours following set rules. School may hold elimination to send in only best booklet for each registration.	By invitation -Teams and individuals with best scores on QP are invited to submit booklet completed in 2 hours by March 18. Limit of 2 "qualifying" teams per division per school. 3 individuals per team may help present a skit at bowl in March, North Oconee High School	State first place winners in all competitive components are invited. Location rotated every two years; usually held at a major college campus in the U.S. 2022 – University of Massachusetts-Amherst, Mass.
COST: Team- \$100, Individuals- \$75 (due when 1 st booklet submitted) Covers evaluation of PP1, PP2, and Qualifying Problem. Team participation can be any size group on PP1 & 2, but limited to a team of 4 for each registration for the QP. Schools may register any number of teams with membership decided by school for each problem (but only 2 teams per division per school may qualify to participate in bowl).			COST: approx. \$75 per team invited + up to 3 individual competitors @ approx. \$30 each.	COST: approx. \$700 per participant (if in-person). Registration covers meals, events, housing, not transportation
Community Problem Solving – Cost \$75 due when project submitted. Project Proposal due Dec. 1. Project report, portfolio, and promotional video due by March 28. Topic: any problem related to local, national, or world community.				
Scenario Writing – Cost \$35. Due January 14. Topic: any of the 4 GIPS topics plus previous year's IC topic.				
Scenario Performance – Cost \$35. Video due January 14. Topic: any of the 4 GIPS topics.				
Action-based/Novice – Cost \$40 for two evaluations; negotiated due dates- suggest 1 in fall, 1 in spring.				